

PRELIMINARY DRAFT - December 18, 1997
1990 ARB Consumer Products Emissions Inventory Assessment

Product Category Code	Category Name	EPA Emission Factor (percent emitted)	1990 VOC Emissions using only ARB DTD Factors (Tons/Yr)	1990 VOC Emissions using EPA & ARB DTD Factors (Tons/Yr)	LVP Emissions (Tons/Yr)	Speciated VOC Data Available	Survey	Comments
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PERSONAL CARE PRODUCTS Hair Care Products

1101	Bleaches and lighteners	10	12.76	1.28		No	No	
1102	Brilliantines	100	0.00	0.00		No	No	
1103	Conditioners	5	107.40	5.37		No	No	
1104	Conditioning sprays	100	*	*	*	No	Yes	Emissions lumped with Finishing Hair Sprays
1105	Curl activators	100	0.12	0.12		No	No	
1106	Curl revitalizers	100	21.55	21.55		No	No	
1107	Dyes - Permanent	10	185.42	18.54		No	No	
1108	Dyes - Semipermanent	10	4.33	0.43		No	No	
1109	Dyes - Temporary	10	93.67	9.37		No	No	
1110	Finishing hair sprays	100	24809.05	24809.05	1368.75	No	Yes	68 TPD from Phase I and II surveys
1111	Finishing spritzes	100	*	*	*	No	Yes	Emissions lumped with Finishing Hair Sprays
1112	Grooming creams	100	0.48	0.48		No	No	
1114	Mousses	100	430.70	430.70	142.35	No	Yes	1.2 TPD from Phase I and II surveys
1115	Permanent wave treatments	10	29.38	2.94		No	No	
1116	Pomades	100	0.36	0.36		No	No	
1118	Rinses	5	0.00	0.00		No	No	
1119	Setting lotions	100	29.98	29.98		No	No	
1120	Shampoos	5	202.27	10.11		No	No	
1121	Spray shines	100	203.67	203.67	21.9	Yes	Yes	0.6 TPD from MTM survey
1122	Straighteners	10	0.00	0.00		No	No	
1123	Styling gels	100	952.65	952.65		No	Yes	2.61 TPD from Phase I and II surveys
1124	Styling sprays	100	*	*	*	No	Yes	Emissions lumped with Finishing Hair Sprays
1125	Styling spritzes	100	*	*	*	No	Yes	Emissions lumped with Finishing Hair Sprays
1126	Thickeners	100	0.00	0.00		No	No	
1127	Tonics	100	46.47	46.47		No	No	
1199	Other hair care products	100	6.14	6.14		No	No	

All Hair Care Products

26549.22

Deodorants and Antiperspirants

1201	Underarm deodorants	100	1071.08	1071.08		No	Yes	
1202	Underarm antiperspirants	100	2498.54	2498.54		No	Yes	
1203	Foot deodorant sprays	100	21.19	21.19		No	No	

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1204	Feminine hygiene deodorants	100	291.93	291.93	29.2	Yes	Yes	0.9 TPD from MTM survey (Personal Hygiene Spray)
1299	Other deod/antiperspirants	100	10.23	10.23		No	No	

All Deod/Antiperspirants

3892.97

Fragrance Products

1301	Colognes	100	1072.28	1072.28		No	Yes	
1302	Perfumes	100	19.38	19.38		No	Yes	
1303	Toilet waters	100	102.22	102.22		No	Yes	
1304	After shave treatments	100	758.76	758.76		No	Yes	
1305	Body fragrance sprays	100	197.94	197.94		No	Yes	
1306	Bath oils, beads and capsules	5	19.38	0.97		No	No	
1399	Other fragrance products	100	93.91	93.91		No	No	

All Fragrance Products

2245.47

Powders

1401	Baby powders	100	1.32	1.32		No	No	
1402	Body powders	100	2.17	2.17		No	No	
1403	Foot powders	100	316.41	316.41		No	Yes	
1499	Other powder products	100	107.40	107.40		No	No	

All Powder Products

427.30

Nail Care Products

1501	Polishes	100	185.90	185.90	100.39	Yes	Yes	
1502	Base coats, undercoats	100	53.10	53.10		Yes	Yes	
1503	Polish removers	100	756.95	756.95		No	Yes	
1504	Nail extenders	100	0.00	0.00		No	No	
1505	Cuticle softeners	10	0.00	0.00		No	No	
1506	Manicure preparations	100	0.00	0.00		No	No	
1599	Other nail care products	100	104.27	104.27		No	No	

All Nail Care Products

1100.22

Facial and Body Treatments

1601	Astringents	100	801.10	801.10	177.9	Yes	Yes	Astringent)
1602	Creams, scrubs, cleaners	10	118.81	11.88	1609.65	Yes	No	0.4 TPD from MTM survey (Facial Cleaner or Soap)

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1603	Rouges and blushes	100	1.32	1.32		No	No	
1604	Foundations & fixatives	100	15.41	15.41		No	No	
1605	Lipsticks	100	0.36	0.36		No	No	
1606	Moisturizers	100	11.44	11.44		No	No	
1607	Skin lighteners	100	2.17	2.17		No	No	
1608	Facial masques	100	0.96	0.96		No	No	
1610	Mascara	100	15.41	15.41		No	No	
1611	Eyeliners	100	1.44	1.44		No	No	
1612	Eye shadow	100	0.72	0.72		No	No	
1613	Eye makeup remover	100	0.00	0.00		No	No	
1614	Eye brow pencil	100	0.00	0.00		No	No	
1615	Hand and body lotions	100	39.37	39.37		No	Yes	
1616	Skin protectants	100	17.22	17.22		No	No	
1617	Depilatories	10	0.72	0.07		No	No	
1618	Self-tanning preparations	100	3.49	3.49		No	No	
1619	Suntan oils and lotions	100	5.90	5.90		No	No	
1620	Sunscreens	100	15.53	15.53		No	No	
1699	Other facial/body treatments	100	29.74	29.74		No	No	

All Facial/Body Treatments

973.55

Oral Care Products

1701	Mouthwashes	5	3742.15	187.11		No	No	
1702	Breath fresheners	5	48.88	2.44		No	No	
1703	Toothpastes, etc.	5	137.26	6.86		No	No	
1704	Plaque removal solutions	5	267.53	13.38		No	No	
1705	Fluoride rinses	5	71.28	3.56		No	No	
1706	Dental care products	5	4.21	0.21		No	No	
1799	Other oral care products	5	3.13	0.16		No	No	

All Oral Care Products

213.72

Health Use Products (External Only)

1801	Over-the-counter drugs	100	505.56	505.56		No	No	
1802	Prescription pharmaceuticals	100	52.25	52.25		No	No	

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1899	Other health use products	100	194.93	194.93		No	No	
All Health Use Products			752.74					

Miscellaneous Personal Care Products

1901	Hand cleaners and soaps	5	2105.43	105.27	16982	Yes	Yes	
1902	Rubbing alcohol	100	2918.38	2918.38	0	Yes	Yes	
1903	Shaving creams, gels, etc.	5	306.60	15.33	865	No	Yes	0.84 TPD from Phase I and II surveys
1999	Other misc. personal care	100	489.43	489.43		No	No	
All Misc Pers Care Prod			3528.40					

HOUSEHOLD PRODUCTS Hard Surface Cleaners

2101	General purpose cleaners	5	4901.95	245.10	4201.15	No	Yes	13.4 TPD from Phase I and II surveys
2101a	General purpose degreasers	na	1222.00	1222.00	317	Yes	Yes	3.6 TPD from MTM survey
2102	Glass cleaners	100	3708.40	3708.40	73	No	Yes	10.2 TPD from Phase I and II surveys
2103	Oven cleaners	100	251.85	251.85	193.45	No	Yes	0.69 TPD from Phase I and II surveys
2104	Tub, tile, and sink cleaners	50	328.50	164.25	375.95	No	Yes	0.9 TPD from Phase I and II surveys
2105	Mildew removers	100	1.81	1.81		No	No	
2106	Toilet bowl cleaners	5	142.35	7.12	616.85	No	Yes	0.39 TPD from Phase I and II surveys
2107	Rust stain removers	100	0.12	0.12		No	No	
2108	Metal cleansers	100	175.54	175.54		Yes	Yes	
2109	Soap scouring pads	100	11.20	11.20		No	No	
2199	Other hard surface cleaners	20	2167.23	433.45	3303.25	No	Yes	4 TPD from MTM survey for Floor Wax Strippers
All Hard Surface Cleaners			6220.83					

Laundry Products

2201	Detergents	83.5	5092.15	5092.15	76909.72	Yes	Yes	Used 0.44% emission factor for ethanol portion only - ethanol was only 16.5% of the speciated VOC's in EPA survey
2202	Soaps	1	0.10	0.10		No	No	
2203	Presoaks	1	2.77	0.03		No	No	
2204	Prewash spot removers	25	671.60	167.90	1343.2	No	Yes	1.84 TPD from Phase I and II surveys
2205	Bleaches	1	148.21	1.48		No	No	
2206	Whiteners/brighteners	1	2.65	0.03		No	No	
2207	Bluing	1	0.00	0.00		No	No	

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2208	Fabric softeners	1	966.69	9.67		No	No	
2209	Water conditioners	1	1.69	0.02		No	No	
2210	Starches, sizings, etc.	100	726.37	726.37	747.73	No	Yes	
2299	Other laundry products	1	211.78	2.12		No	No	

All Laundry Products

5999.86

Fabric and Carpet Care Products

2301	Carpet cleaners	50	308.90	154.45	744.6	Yes	Yes	0.9 TPD from MTM survey
2302	Carpet deodorizers	100	62.05	62.05	244.55	No	Yes	0.17 TPD from Phase I and II surveys
2303	Upholstery cleaners	100	*	*	*	Yes	Yes	Lumped with Automotive Upholstery Cleaners
2304	Spot removers	100	132.39	132.39	51.1	Yes	Yes	0.9 TPD from MTM survey
2305	Fabric stain repellants	100	132.08	132.08		No	Yes	
2306	Water repellants	100	14.60	14.60	3.65	No	No	0.04 TPD from Phase I and II surveys
2307	Fabric dyes	5	0.00	0.00		No	No	
2308	Antistatic sprays	100	7.30	7.30	0	No	No	0.02 TPD from Phase I and II surveys
2309	Dry cleaning fluids	100	196.25	196.25		Yes	No	
2399	Other fabric/carpet care	100	18.54	18.54		No	No	

All Fabric/Carpet Care

717.66

Dishwashing Products

2401	Dish detergents (manual)	5	391.30	391.30	158895	Yes	Yes	Used 4% emission factor for ethanol portion only - ethanol was 94% of the speciated VOC's
2402	Dish detergents (machine)	2	513.63	10.27		No	Yes	
2403	Rinse aids	1	14.57	0.15		No	No	
2404	Film and spot removers	1	0.12	0.00		No	No	
2499	Other dishwashing products	1	0.60	0.01		No	No	

All Dishwashing Products

401.73

Waxes and Polishes

2501	Furniture waxes and polishes	100	1032.95	1032.95	737.3	No	Yes	2.83 TPD from Phase I and II surveys
2502	Floor waxes and polishes	100	755.55	755.55	2135.25	No	Yes	2.07 TPD from Phase I and II surveys
2503	Dusting aids	100	182.50	182.50	91.25	No	Yes	0.5 TPD from Phase I and II surveys
2599	Other waxes and polishes	100	67.06	67.06		No	No	

All Waxes and Polishes

2038.06

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Air Fresheners

2601	Room air fresheners	100	3220.34	3220.34	383.45	No	Yes	
2602	Toilet deodorant blocks	50	1067.23	533.61	0	Yes	No	
2699	Other air fresheners	100	256.33	256.33	30.5	No	No	

All Air Fresheners 4010.28

Shoe and Leather Care Products

2701	Leather treatments	100	12.16	0.00		No	No	
2703	Shoe polishes	100	124.10	124.10	87.6	No	Yes	0.34 TPD from Phase I and II surveys
2799	Other leather care products	100	13.61	13.61		No	No	

All Shoe & Leather Care 137.71

Miscellaneous Household Products

2801	Lubricants	100	2399.91	2399.91	1930.85	Yes	Yes	7.1 TPD from MTM survey - All Auto and Household lubricants and penetrants lumped
2802	Drain openers	1	46.47	0.46		No	No	
2803	Charcoal lighters	20	953.91	953.91	0	No	Yes	
2804	Wick lamp fuels	10	797.77	79.78		No	No	
2805	Plant leaf cleaners and waxes	100	0.72	0.72		No	No	
2806	Driveway cleaners	100	0.36	0.36		No	No	
2899	Other misc. household products	100	673.04	673.04		No	No	

All Misc Household Prod 4108.18

AUTOMOTIVE AFTERMARKET PRODUCTS Detailing Products

3101	Waxes, polishes, sealers	100	1381.56	1381.56	524	Yes	Yes	4.1 TPD from MTM survey (All waxes and polishes lumped)
3102	Vinyl and leather cleaners	100	21.90	21.90	69	Yes	Yes	0.06 TPD from Phase I and II surveys
3103	Upholstery fabric cleaners	100	78.07	78.07	50.3	Yes	Yes	0.2 TPD from MTM survey (Auto and Household)
3104	Tire cleaners	100	51.29	51.29	36.4	Yes	Yes	
3105	Wheel cleaners	100	67.89	67.89	165	Yes	Yes	0.2 TPD from MTM survey
3106	Bug and tar removers	100	234.22	234.22	13.6	Yes	Yes	0.7 TPD from MTM survey
3107	Chrome cleaners, polishes	100	18.25	18.25	3.65	No	No	0.05 TPD from Phase I and II surveys
3108	Rubber and vinyl protectants	100	763.76	763.76	1475	Yes	Yes	2.25 TPD from MTM survey (including Tire Dressings)

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3199	Other detailing products	100	216.96	216.96		No	No	
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All Auto Detailing Products

2833.91

Maintenance and Repair Products

3201	Engine degreasers	25	2295.85	573.96	832.2	No	Yes	6.29 TPD from Phase I and II surveys
3202	Carburetor, choke cleaners	50	2018.45	1009.23	58.4	No	Yes	5.53 TPD from Phase I and II surveys
3203	Brake cleaners	100	762.85	762.85	51.1	No	Yes	2.09 TPD from Phase I and II surveys
3204	Brake anti-squeal compounds	100	2.29	2.29		No	No	
3205	Tire sealants and inflators	100	392.50	392.50		Yes	Yes	
3206	Belt dressings	100	6.50	6.50		No	No	
3207	Engine starting fluids	50	548.30	274.15		No	No	
3208	Lubricants (exc engine oil)	100	**	**		*	*	Lumped with Household Lubricants
3209	Antifreezes	100	0.00	0.00		Yes	No	
3210	Brake fluids	100	731.55	731.55		No	Yes	
3211	Body repair (exc coatings)	100	63.09	63.09		No	Yes	
3212	Windshield deicers	100	244.53	244.53		No	Yes	
3213	Windshield washer fluids	100	9694.85	9694.85	1895.47	No	Yes	
3299	Other auto maint/repair products	100	915.04	915.04		No	No	Excluded miscategorized and industrial products

All Auto Maint/Rep Prod

14670.54

ADHESIVES AND SEALANTS Consumer Adhesives

4101	Household glues and pastes	100	38.41	38.41		No	No	
4102	Arts and crafts adhesives	100	64.29	64.29		No	Yes	
4103	Carpet and tile adhesives	100	583.94	583.94		No	Yes	
4104	Wallpaper adhesives	100	0.36	0.36		No	No	
4105	Woodworking glues	100	76.33	76.33		No	Yes	
4106	Pipe cements and primers	100	675.44	675.44	184.21	Yes	Yes	
4107	Thread locking compounds	100	0.96	0.96		No	No	
4108	Automotive adhesives	100	259.10	259.10		No	Yes	
4109	Construction adhesives	100	2769.20	2769.20		No	Yes	Excluded industrial products
4199	Other adhesives	100	108.36	108.36		No	No	

All Consumer Adhesives

4576.40

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Sealants

4201	Spackling compounds	100	1.20	1.20		No	No	
4202	Caulking compounds	100	313.04	313.04	5806	No	Yes	
4203	Window glazing compounds	100	31.67	31.67		No	No	
4204	Pipe thread sealants	100	2.17	2.17		Yes	No	
4205	Plumbers putties	100	0.00	0.00		No	No	
4206	Painters putties	100	0.00	0.00		No	No	
4207	Wood fillers	100	85.00	85.00		Yes	Yes	
4208	Insulating and sealing foams	100	1.08	1.08		No	No	
4209	Driveway patch compounds	100	18.30	18.30		No	No	
4210	Cold process roof cements	100	163.26	163.26		No	Yes	
4299	Other sealants	100	368.30	368.30		No	No	

All Sealants

984.03

FIFRA-REGULATED PRODUCTS Insecticides

5101	Lawn and garden insecticides	100	1059.40	1059.40	2568.07	No	Yes	
5102	Space insecticides, foggers	100	605.90	605.90	51.1	No	Yes	1.66 TPD from Phase I and II surveys
5103	Flying insect sprays	100	692.66	692.66	49.09	No	Yes	
5104	Residual insecticides	100	1591.40	1591.40		No	Yes	Excluded agricultural products
5105	Hornet and wasp sprays	100	217.25	217.25	42.8	Yes	Yes	0.64 TPD from MTM survey
5106	Flea and tick products	100	329.78	329.78	72.39	No	Yes	
5199	Other insecticides	100	722.40	722.40		No	No	Excluded agricultural products

All Insecticides

5218.78

Fungicides & Nematicides

5201	Lawn and garden treatments	100	50.93	50.93		No	Yes	
5202	Wood preserv. (AIM)	100	0.00	0.00		No	No	
5203	Mold and mildew retardants	100	2.77	2.77		No	No	
5299	Other fungicides/nematicides	100	481.60	481.60		No	No	Excluded agricultural products

All Fungicides/Nematicides

535.30

Herbicides

5301	Aquatic herbicides	5	2.05	0.10		No	No	
5302	Swimming pool algicides	5	24.44	1.22		No	No	

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5303	Herbicides, defoliants	100	5194.42	5194.42	4228	Yes	Yes	
5399	Other herbicides	100	361.20	361.20		No	No	Excluded agricultural products

All Herbicides 5556.94

Antimicrobial Agents

5401	Sanitizers	50	187.70	93.85		Yes	Yes	
5402	Disinfectants	50	3504.00	1752.00	733	Yes	Yes	9.6 TPD from Phase I and II surveys
5403	Sterilants	75	317.49	238.12		No	Yes	
5499	Other antimicrobial agents	75	41.42	31.06		No	No	

All Antimicrobial Agents 2115.04

Other FIFRA-Regulated Products

5501	Insect repellants	100	966.93	966.93		No	Yes	
5502	Cat and dog repellants	100	20.23	20.23		No	No	
5503	Rodent poisons and baits	100	1.44	1.44		No	No	
5599	Misc other FIFRA products	100	325.08	325.08		No	No	Excluded agricultural products

All Other FIFRA Products 1313.68

COATINGS AND RELATED PRODUCTS Aerosol Spray Paints

6101	Nonflat enamels	100	5176.20	5176.20		No		The Aerosol Paints Survey is already being conducted
6102	Flat enamels	100	1090.50	1090.50		No		
6103	Nonflat lacquers	100	1031.60	1031.60		No		
6104	Flat lacquers	100	211.50	211.50		No		
6105	Metallic pigmented coatings	100	648.70	648.70		No		
6106	Clear coatings	100	466.60	466.60		No		
6107	Traffic marking coatings	100	425.60	425.60		No		
6108	Exact match auto paints	100	190.50	190.50		No		
6109	Vinyl/fabric coatings	100	27.40	27.40		No		
6110	Glass coatings	100	1.80	1.80		No		
6111	Automotive sanding primers	100	363.70	363.70		No		
6112	Rust-inhibitive primers	100	474.70	474.70		No		
6113	Spatter finishes	100	80.40	80.40		No		
6114	Wood stains	100	28.40	28.40		No		

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Product Category Code	Category Name	EPA Emission Factor (percent emitted)	1990 VOC Emissions using only ARB DTD Factors (Tons/Yr)	1990 VOC Emissions using EPA & ARB DTD Factors (Tons/Yr)	LVP Emissions (Tons/Yr)	Speciated VOC Data Available	Survey	Comments
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6115	Engine enamels	100	380.00	380.00		No		
6116	High temperature coatings	100	243.40	243.40		No		
6199	Other aerosol spray paints	100	474.10	474.10		No		

All Aerosol Spray Paints

11315.10

Coating-Related Products

6201	Paint thinners (non-auto)	100	1881.01	1881.01	0	Yes	No	
6202	Paint removers	100	713.49	713.49	96	Yes	Yes	
6203	Brush cleaners	100	49.48	49.48	0	Yes	No	
6204	Packaged solvents	100	4162.47	4162.47	1138	Yes	Yes	
6299	Other coatings related products	100	497.73	497.73		No	No	

All Coating Related Prod

7304.19

MISCELLANEOUS PRODUCTS (Not Otherwise Covered) Arts and Crafts Supplies

7101	Artists paints, thinners	100	77.18	77.18		No	No	
7102	Fixative sprays	100	11.68	11.68		No	No	
7103	Specialty cleaning products	100	85.97	85.97		No	No	
7104	Ceramic finishing products	100	2.53	2.53		No	No	
7199	Other arts and crafts supplies	100	70.31	70.31		No	No	

All Arts & Crafts Supplies

247.66

Non-Pesticidal Veterinary and Pet Products

7201	Animal drugs (external only)	100	30.82	30.82		No	No	
7202	Animal grooming products	100	15.17	15.17		No	No	
7203	Cat litters	100	52.61	52.61		No	No	
7299	Other vet and pet products	100	4.45	4.45		No	No	

All Pet/Vet Products

103.06

Pressurized Food Products

7302	Pan sprays	100	327.49	327.49		No	Yes	
7303	Whipped dessert toppings	100	14.33	14.33		No	No	
7399	Other pressurized products	100	0.00	0.00		No	No	

All Pressurized Food Prod

341.82

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Office Supplies

7401	Pens	100	7.71	7.71		No	No	
7402	Ink	100	0.96	0.96		No	No	
7403	Permanent markers	100	6.74	6.74		No	No	
7404	Dry erasable markers	100	0.00	0.00		No	No	
7405	Highlighters	100	0.96	0.96		No	No	
7406	Correction fluids	100	0.00	0.00		No	No	
7408	Inked ribbons	100	0.00	0.00		No	No	
7499	Other office supplies	100	333.27	333.27		No	No	

All Office Supplies

349.64

ALL CATEGORIES

Ton per year

142962.5

120434.2

Ton per day

391.7

330.0

Categories Proposed to be Surveyed

Ton per year

111468.5

Ton per day

305.4

Percent of Total

78.0

Including Aerosol Paints (T/Y)

122783.6

Percent of Total

85.9

Regulated Categories

Ton per year

100762.8

Ton per day

276.1

Percent of Total

70.5